

GCSE BIOLOGY

study notes

MOVEMENT OF SUBSTANCES INTO AND OUT OF CELLS

DIFFUSION

Diffusion = net movement of particles from high to low concentration
Diffusion = passive, no energy required, result of random movement
Concentration gradient = difference in concentration

Increasing diffusion rate = steeper gradient, larger rate cells, small cells

OSMOSIS

Osmosis = the diffusion of water molecules across partially permeable membrane from high to low concentration (water)

Isotonic = same water concentration in solution on both sides
Hypertonic = hypertonic solution has higher water concentration
Hypotonic = hypotonic solution has lower water concentration
Rugel = high internal water pressure, pushes against cell wall of plant cells
Turgid = plant cell when a waterfilled due to the osmotic movement
Plasmolysed = when cells lose water through osmosis

ACTIVE TRANSPORT

Active transport = when particles move against a concentration gradient
Energy enters in the cell membrane push up particles and molecules
The cell membrane against concentration gradient using ATP

FACTOALS

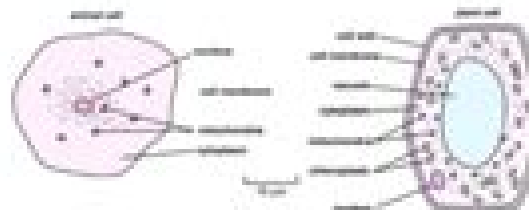
Diffusion

Not using energy

Small molecules (sugars, amino acids) move from high to low concentration

CELL STRUCTURE

CELL ORGANELLES



Organelles = subcellular structures in cells

Cytoplasm

Where chemical reactions take place

Living, jelly-like material. Supports organelles

Contains enzymes, water and solutes

Nucleus

Contains genetic information of a cell

Enclosed in a nuclear membrane. Contains chromosomes

Control the activity in cells by determining the proteins produced

Level 9 achieved!

THE ORGANISM IN THE ENVIRONMENT

Organisms interact with their physical, chemical and biological environment
Study of organisms and the environment interacting as a system
All part of an ecosystem

Communities of the same species, living in the same area at the same time
Populations of different species living and interacting in the same area
All in which organisms live, a combination of biotic and abiotic factors

POPULATION

Group of individuals that can affect the size and distribution of population

Can be found in larger levels

Can

Can

Can

Can be found in larger levels

Can

Can be found in larger levels

Can be found in larger levels

Can be found in larger levels

Can be found in larger levels

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